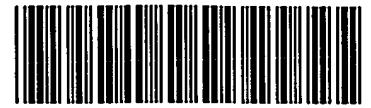


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/600,187A  
Source: IFW16  
Date Processed by STIC: 09/06/2006

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/600,187A

TIME: 15:37:05

Input Set : N:\CrF3\RULE60\10600187A.RAW.txt

Output Set: N:\CRF4\09062006\J600187A.raw

1 <110> APPLICANT: O'Brien, Timothy J.  
 2 <120> TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease  
 3 Overexpressed in Carcinomas  
 4 <130> FILE REFERENCE: D6064CIP  
 5 <140> CURRENT APPLICATION NUMBER: US/10/600,187A  
 6 <141> CURRENT FILING DATE: 2003-06-20  
 7 <150> PRIOR APPLICATION NUMBER: US/09/421,213  
 8 <151> PRIOR FILING DATE: 1998-10-20  
 9 <150> PRIOR APPLICATION NUMBER: US 09/027,337  
 W--> 10 <151> PRIOR FILING DATE: 02-20-1998  
 11 <160> NUMBER OF SEQ ID NOS: 98  
 12 <170> SOFTWARE: MS Word 98  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 3147  
 16 <212> TYPE: DNA  
 17 <213> ORGANISM: Homo sapiens  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: TADG-15  
 20 <400> SEQUENCE: 1

21	tcaagagcgg	cctcggtta	ccatgggag	cgatcggttcc	cgcaaggcg	gagggggccc	60
22	gaaggacttc	ggcgcggtac	tcaagtacaa	ctccccggcac	gagaaaagtga	atggcttgaa	120
23	ggaaggcgtg	gagttcctgc	cagtcaacaa	cgtcaagaag	gtggaaaagc	atggcccggg	180
24	gcgctgggtg	gtgctggcag	ccgtgctgat	cgcccttc	tttgtcttgc	tgggatcgg	240
25	cttcctgggtg	tggcatttgc	agtaccggta	cgtgcgtgtc	cagaaggct	tcaatggcta	300
26	catgaggatc	acaaatgaga	attttgttga	tgcctacgag	aactccaact	ccactgagtt	360
27	tgtaagcctg	gccagcaagg	tgaaggacgc	gctgaagctg	ctgtacagcg	gagtcccatt	420
28	cctggggccc	taccacaagg	agtccggctgt	gacggccctc	agcgagggca	gcgtcatcgc	480
29	ctactactgg	tctgagttca	gcatcccgca	gcacctgggt	gaggaggccg	agcgctgtcat	540
30	ggccgaggag	cgcgtagtca	tgctgcccccc	gcgggcgcgc	tcctctgaagt	cctttgttgt	600
31	cacctcagtg	gtggctttcc	ccacggactc	aaaaacagta	cagaggaccc	aggacaacag	660
32	ctgcagctt	ggcctgcacg	cccgccgtgt	ggagctgatg	cgcttcacca	cgcggcgctt	720
33	ccctgacagc	ccctaccccg	ctcatgcccc	ctgcccagtgg	gcctgcggg	gggacgcccga	780
34	ctcagtgtg	agcctcacct	tccgcagctt	tgaccttgcg	tcctgcgacg	agcgccggcag	840
35	cgacctgggt	acggtgtaca	acaccctgag	ccccatggag	coccacgccc	tggtgccat	900
36	gtgtggcacc	taccctccct	cctacaacct	gacctccac	tcctcccaga	acgtcctgt	960
37	catcacactg	ataaccaaca	ctgagcgccg	gcatcccgcc	tttgaggcca	ccttcttcca	1020
38	gctgcctagg	atgagcagct	gtggaggccg	cttacgtaaa	gcccaggggaa	cattcaacag	1080
39	ccctactac	ccaggccact	acccacccaa	cattgactgc	acatgaaaca	ttgaggtgcc	1140
40	caacaaccag	catgtgaagg	ttagctcaa	attcttctac	ctgctggagc	ccggcgtgcc	1200
41	tgccggcacc	tgccccaagg	actacgttga	gatcaatggg	gagaaaatact	gcggagagag	1260
42	gtcccagttc	gtcgtcacca	gcaacagcaa	caagatcaca	gttcgcttcc	actcagatca	1320
43	gtcctacacc	gacaccggct	tcttagctga	ataccttcc	tacgactcca	gtgaccatg	1380
44	cccgccggcag	ttcacgtgcc	gcacggggcg	gtgtatccgg	aaggagctgc	gctgtatgg	1440

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/600,187A**

**DATE: 09/06/2006**  
**TIME: 15:37:05**

**Input Set : N:\CrF3\RULE60\10600187A.RAW.txt**  
**Output Set: N:\CRF4\09062006\J600187A.raw**

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45 ctggccgac tgcaccgacc acagcgatga gctcaactgc agttgcgacg ccggccacca 1500
46 gttcacgtgc aagaacaagt tctgcaagcc cctcttctgg gtctgcgaca gtgtgaacga 1560
47 ctgcggagac aacagcgacg agcaggggtg cagttgtccg gcccagaccc tcaggtgttc 1620
48 caatggaaag tgcctctcgaa aagccagca gtgcaatggg aaggacgact gtgggacgg 1680
49 gtccgacgag gcctcctgcc ccaaggtgaa cgtcgtaact tgtaccaaacc acacccatcc 1740
50 ctgcctcaat gggctctgt tgtagcaaggg caaccctgag ttgacggga aggaggactg 1800
51 tagcgacggc tcagatqaga aggactgcga ctgtgggctg cggtcattca cgagacaggc 1860
52 tcgtgttgtt gggggcacgg atgcggatga gggcgagtgg ccctggcagg taagcctgca 1920
53 tgctctggc cagggccaca tctgcggtgc ttccctcatc tctcccaact ggctggctc 1980
54 tgccgcacac tgctacatcg atgacagagg attcaggtac tcagacccca cgcagtggac 2040
55 ggcttcctg ggcttgcacg accagagcca ggcgcggcc cctgggggtgc aggagcgcag 2100
56 gctcaagcgc atcatctccc accccttctt caatgacttc accttcgact atgacatcgc 2160
57 gctgctggag ctggagaaac cggcagagta cagctccatg gtgcggccca tctgcctgccc 2220
58 ggacgcctcc catgtctcc ctgcccccaaa ggccatctgg gtcacgggct gggacacac 2280
59 ccagtatgga ggcactggcg cgctgatccct gcaaaagggt gagatccgcg tcatcaacca 2340
60 gaccacctgc gagaacctcc tgccgcagca gatcagccg cgcacatgtg gctgggctt 2400
61 cctcagcggc ggcgtggact cctgccaggg tgattccggg ggacccctgt ccagcgtgga 2460
62 ggccgatggg cggatctcc aggccgggtt ggtgagctgg ggagacggct ggcctcagag 2520
63 gaacaaggcca gqcggttaca caaggctccc tctgtttcgg gactggatca aagagaacaa 2580
64 tgggtatacg gggccggggc cacccaaattt tgtacacccctg cggggccacc tcatcgccac 2640
65 cccagtgtgc acgcctgcag gctggagact ggaccgctga ctgcaccaggc gccccccagaa 2700
66 catacaactgt gaactcaatc tccagggtctc caaatctgcc tagaaaaaccc tctgccttc 2760
67 cagccctcaa agtggagctg ggaggtagaa ggggaggaca ctgggtggtt tactgaccca 2820
68 actggggca aaggtttggaa gacacagccct ccccccggccag ccccaagctg ggccgaggcg 2880
69 cgttgttgc tatctgcctc ccctgtctgt aaggagcagc gggAACGGAG cttcgagcc 2940
70 tcctcagtga aggtgggtgg gctgcccggat ctgggtgtg ggcccttgg gccacgctct 3000
71 tgaggaagcc caggctcggaa ggacccctggaa aaacagacgg gtcgtagact gaaattgttt 3060
72 taccagctcc cagggtggac ttcatgtgtt gtatgttggaa aatgggtaa aacaatttt 3120
73 ttctttttaa aaaaaaaaaaaa aaaaaaaaaa 3147
75 <210> SEQ ID NO: 2
76 <211> LENGTH: 855
77 <212> TYPE: PRT
78 <213> ORGANISM: Homo sapiens
79 <220> FEATURE:
80 <223> OTHER INFORMATION: TADG-15
81 <400> SEQUENCE: 2
82 Met Gly Ser Asp Arg Ala Arg Lys Gly Gly Gly Pro Lys Asp
83 5 10 15
84 Phe Gly Ala Gly Leu Lys Tyr Asn Ser Arg His Glu Lys Val Asn
85 20 25 30
86 Gly Leu Glu Glu Gly Val Glu Phe Leu Pro Val Asn Asn Val Lys
87 35 40 45
88 Lys Val Glu Lys His Gly Pro Gly Arg Trp Val Val Leu Ala Ala
89 50 55 60
90 Val Leu Ile Gly Leu Leu Leu Val Leu Leu Gly Ile Gly Phe Leu
91 65 70 75
92 Val Trp His Leu Gln Tyr Arg Asp Val Arg Val Gln Lys Val Phe
93 80 85 90
94 Asn Gly Tyr Met Arg Ile Thr Asn Glu Asn Phe Val Asp Ala Tyr

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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/600,187A**

**DATE: 09/06/2006**  
**TIME: 15:37:05**

**Input Set : N:\CrF3\RULE60\10600187A.RAW.txt**  
**Output Set: N:\CRF4\09062006\J600187A.raw**

95	95	100	105
96	Glu Asn Ser Asn Ser Thr Glu Phe Val	Ser Leu Ala Ser Lys Val	
97	110	115	120
98	Lys Asp Ala Leu Lys Leu Leu Tyr Ser	Gly Val Pro Phe Leu Gly	
99	125	130	135
100	Pro Tyr His Lys Glu Ser Ala Val Thr	Ala Phe Ser Glu Gly Ser	
101	140	145	150
102	Val Ile Ala Tyr Tyr Trp Ser Glu Phe	Ser Ile Pro Gln His Leu	
103	155	160	165
104	Val Glu Glu Ala Glu Arg Val Met Ala	Glu Glu Arg Val Val Met	
105	170	175	180
106	Leu Pro Pro Arg Ala Arg Ser Leu Lys	Ser Phe Val Val Thr Ser	
107	185	190	195
108	Val Val Ala Phe Pro Thr Asp Ser Lys	Thr Val Gln Arg Thr Gln	
109	200	205	210
110	Asp Asn Ser Cys Ser Phe Gly Leu His	Ala Arg Gly Val Glu Leu	
111	215	220	225
112	Met Arg Phe Thr Thr Pro Gly Phe Pro	Asp Ser Pro Tyr Pro Ala	
113	230	235	240
114	His Ala Arg Cys Gln Trp Ala Leu Arg	Gly Asp Ala Asp Ser Val	
115	245	250	255
116	Leu Ser Leu Thr Phe Arg Ser Phe Asp	Leu Ala Ser Cys Asp Glu	
117	260	265	270
118	Arg Gly Ser Asp Leu Val Thr Val Tyr	Asn Thr Leu Ser Pro Met	
119	275	280	285
120	Glu Pro His Ala Leu Val Gln Leu Cys	Gly Thr Tyr Pro Pro Ser	
121	290	295	300
122	Tyr Asn Leu Thr Phe His Ser Ser Gln	Asn Val Leu Leu Ile Thr	
123	305	310	315
124	Leu Ile Thr Asn Thr Glu Arg Arg His	Pro Gly Phe Glu Ala Thr	
125	320	325	330
126	Phe Phe Gln Leu Pro Arg Met Ser Ser	Cys Gly Gly Arg Leu Arg	
127	335	340	345
128	Lys Ala Gln Gly Thr Phe Asn Ser Pro	Tyr Tyr Pro Gly His Tyr	
129	350	355	360
130	Pro Pro Asn Ile Asp Cys Thr Trp Asn	Ile Glu Val Pro Asn Asn	
131	365	370	375
132	Gln His Val Lys Val Ser Phe Lys Phe	Phe Tyr Leu Leu Glu Pro	
133	380	385	390
134	Gly Val Pro Ala Gly Thr Cys Pro Lys	Asp Tyr Val Glu Ile Asn	
135	395	400	405
136	Gly Glu Lys Tyr Cys Gly Glu Arg Ser	Gln Phe Val Val Thr Ser	
137	410	415	420
138	Asn Ser Asn Lys Ile Thr Val Arg Phe	His Ser Asp Gln Ser Tyr	
139	425	430	435
140	Thr Asp Thr Gly Phe Leu Ala Glu Tyr	Leu Ser Tyr Asp Ser Ser	
141	440	445	450
142	Asp Pro Cys Pro Gly Gln Phe Thr Cys	Arg Thr Gly Arg Cys Ile	
143	455	460	465

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/600,187A**

**DATE: 09/06/2006**  
**TIME: 15:37:05**

**Input Set : N:\CrF3\RULE60\10600187A.RAW.txt**  
**Output Set: N:\CRF4\09062006\J600187A.raw**

144	Arg Lys Glu Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His		
145	470	475	480
146	Ser Asp Glu Leu Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr		
147	485	490	495
148	Cys Lys Asn Lys Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser		
149	500	505	510
150	Val Asn Asp Cys Gly Asp Asn Ser Asp Glu Gln Gly Cys Ser Cys		
151	515	520	525
152	Pro Ala Gln Thr Phe Arg Cys Ser Asn Gly Lys Cys Leu Ser Lys		
153	530	535	540
154	Ser Gln Gln Cys Asn Gly Lys Asp Asp Cys Gly Asp Gly Ser Asp		
155	545	550	555
156	Glu Ala Ser Cys Pro Lys Val Asn Val Val Thr Cys Thr Lys His		
157	560	565	570
158	Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu Ser Lys Gly Asn Pro		
159	575	580	585
160	Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly Ser Asp Glu Lys		
161	590	595	600
162	Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln Ala Arg Val		
163	605	610	615
164	Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp Gln Val		
165	620	625	630
166	Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser Leu		
167	635	640	645
168	Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp		
169	650	655	660
170	Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe		
171	665	670	675
172	Leu Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln		
173	680	685	690
174	Glu Arg Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp		
175	695	700	705
176	Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro		
177	710	715	720
178	Ala Glu Tyr Ser Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala		
179	725	730	735
180	Ser His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp		
181	740	745	750
182	Gly His Thr Gln Tyr Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys		
183	755	760	765
184	Gly Glu Ile Arg Val Ile Asn Gln Thr Thr Cys Glu Asn Leu Leu		
185	770	775	780
186	Pro Gln Gln Ile Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser		
187	785	790	795
188	Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser		
189	800	805	810
190	Ser Val Glu Ala Asp Gly Arg Ile Phe Gln Ala Gly Val Val Ser		
191	815	820	825
192	Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro Gly Val Tyr Thr		

## RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/600,187A

TIME: 15:37:05

Input Set : N:\Crf3\RULE60\10600187A.RAW.txt

Output Set: N:\CRF4\09062006\J600187A.raw

193                       830                       835                       840  
 194     Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn Thr Gly Val  
 195                       845                       850                       855  
 197 <210> SEQ ID NO: 3  
 198 <211> LENGTH: 256  
 199 <212> TYPE: PRT  
 200 <213> ORGANISM: Homo sapiens  
 201 <220> FEATURE:  
 202 <223> OTHER INFORMATION: Hepsin  
 203 <400> SEQUENCE: 3  
 204     Arg Ile Val Gly Gly Arg Asp Thr Ser Leu Gly Arg Trp Pro Trp  
 205               5                       10                       15  
 206     Gln Val Ser Leu Arg Tyr Asp Gly Ala His Leu Cys Gly Gly Ser  
 207               20                       25                       30  
 208     Leu Leu Ser Gly Asp Trp Val Leu Thr Ala Ala His Cys Phe Pro  
 209               35                       40                       45  
 210     Glu Arg Asn Arg Val Leu Ser Arg Trp Arg Val Phe Ala Gly Ala  
 211               50                       55                       60  
 212     ... Val Ala Gln Ala Ser Pro His Gly Leu Gln Leu Gly Val Cln Ala  
 213               65                       70                       75  
 214     Val Val Tyr His Gly Gly Tyr Leu Pro Phe Arg Asp Pro Asn Ser  
 215               80                       85                       90  
 216     Glu Glu Asn Ser Asn Asp Ile Ala Leu Val His Leu Ser Ser Pro  
 217               95                       100                      105  
 218     Leu Pro Leu Thr Glu Tyr Ile Gln Pro Val Cys Leu Pro Ala Ala  
 219               110                       115                      120  
 220     Gly Gln Ala Leu Val Asp Gly Lys Ile Cys Thr Val Thr Gly Trp  
 221               125                       130                      135  
 222     Gly Asn Thr Gln Tyr Tyr Gly Gln Gln Ala Gly Val Leu Gln Glu  
 223               140                       145                      150  
 224     Ala Arg Val Pro Ile Ile Ser Asn Asp Val Cys Asn Gly Ala Asp  
 225               155                       160                      165  
 226     Phe Tyr Gly Asn Gln Ile Lys Pro Lys Met Phe Cys Ala Gly Tyr  
 227               170                       175                      180  
 228     Pro Glu Gly Gly Ile Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro  
 229               185                       190                      195  
 230     Phe Val Cys Glu Asp Ser Ile Ser Arg Thr Pro Arg Trp Arg Leu  
 231               200                       205                      210  
 232     Cys Gly Ile Val Ser Trp Gly Thr Gly Cys Ala Leu Ala Gln Lys  
 233               215                       220                      225  
 234     Pro Gly Val Tyr Thr Lys Val Ser Asp Phe Arg Glu Trp Ile Phe  
 235               230                       235                      240  
 236     Gln Ala Ile Lys Thr His Ser Glu Ala Ser Gly Met Val Thr Gln  
 237               245                       250                      255  
 238     Leu  
 240 <210> SEQ ID NO: 4  
 241 <211> LENGTH: 225  
 242 <212> TYPE: PRT  
 243 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 09/06/2006  
PATENT APPLICATION: US/10/600,187A                    TIME: 15:37:06

Input Set : N:\Crf3\RULE60\10600187A.RAW.txt  
Output Set: N:\CRF4\09062006\J600187A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 6,9,12,15,18

Seq#:12; N Pos. 3,6,9,12,18

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/600,187A

DATE: 09/06/2006

TIME: 15:37:06

Input Set : N:\Crf3\RULE60\10600187A.RAW.txt

Output Set: N:\CRF4\09062006\J600187A.raw

L:10 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:631 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11  
L:635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:642 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12  
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0